Haus der Normung

office building

vertical division of the window, exterior sun shades, light diffusing glass

building

The DIN-Building is a typical beam shaped building of the 1960's. Two rows of cellular offices are accessed by two corridors, separated by a utility core containing stairs, toilets, elevators and service rooms. In 1992 a transept of three stories was added on top of the existing building.

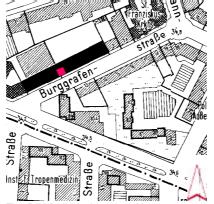
daylight strategy

The daylight strategy of the DIN-Building is limited to the offices, although the corridors receive some daylight from clerestory windows in the partition walls. The facade openings consist of a lower window with clear glass, shaded by a fixed inclined exterior sun shade, and an upper window glazed with light diffusing glass. When the translucent glazing is hit by direct sunlight, high luminance tends to cause glare. Consequently interior blinds have been added to screen the entire window, thus disabling the daylight diffusing device.

office

The offices are only 4,1 m deep and typically occupied by one person. They are naturally ventilated, with all the wiring and heating placed below the window sill. Users have criticized the changes between natural and artificial light during partly cloudy days when daylight fluctuation is rather extreme.

Berlin, Germany 52,5° N, 13,2° E predominantly cloudy



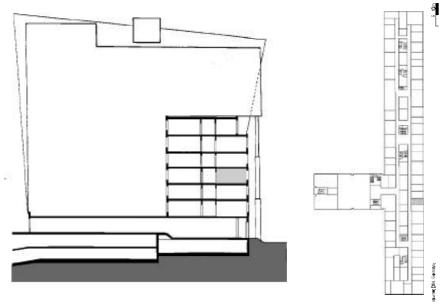
The DIN-Building is situated in a heterogeneous urban environment.



A column which supports the extension of the building obstructs the window of the room recorded.



Facade of the DIN-Building, view from the Burggrafenstraße. The design concept of the old building part attempted to close the front of the street.



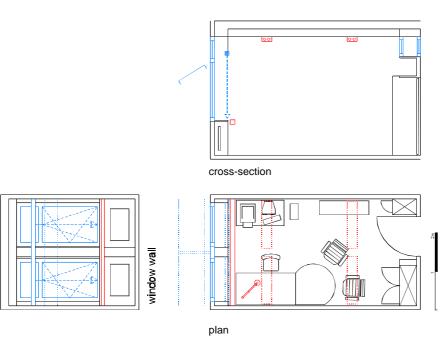
Left side: the cross-section shows an extension which was constructed above the existing building, right side: Floorplan of the 3rd story of the DIN-Building



Interior view of the office recorded, the exterior fixed shading device does not screen the upper part of the window. Interior blinds have been retrofitted to protect the user from glare.



Detail of the window system. When the translucent glass in the top of the window is hit by direct sunlight it becomes very bright and may cause glare.



building data 16,300 m² size number of stories 6 architect Plarre (old part) year of completion 1966 office room daylight strategy unilateral, sidelighting dimensions (depth/width/height) 5,2 m / 2,7 m / 3,0 m room area 14,1 m² carpet, 30% wall white paint, 70% door gray paint, 50% ceiling fiber board, 70% plastic coating, 24% table facade, lower window double clear glazing facade, upper window double light diffusing glazing corridor facing window double wired glazing lamp types fluorescent lamps

control strategy manual switching

20 W/m²

installed power

density

Jan. 1. 1. 1.	tacade				south facade		corridor facing windows
		orientation		15	57°	3	337°
j	Œ	glazed area		3,4	m²	1,0) m²
	data	opening index		C	,41		0,12
		daylighting			•		-
	funct io n	view outside			•		-
		ventilation			•		-
		operable			•		-
1		shading			•		-
	<u></u>	redirection					-
	systems		lightsh e lf	light-diff. glazing	interior blinds		n o ne
	function systems	sun shading	•	Ð	•		
		glare protection	Ð	₽	•		
	₹	redirection			-		
	location	inside			•		
		window pane		•	-		
		outside	•	₽	-		
ij		movable	-	-0	•		
_	<u>ဗ</u>	fixed			-		